

FIG. 1

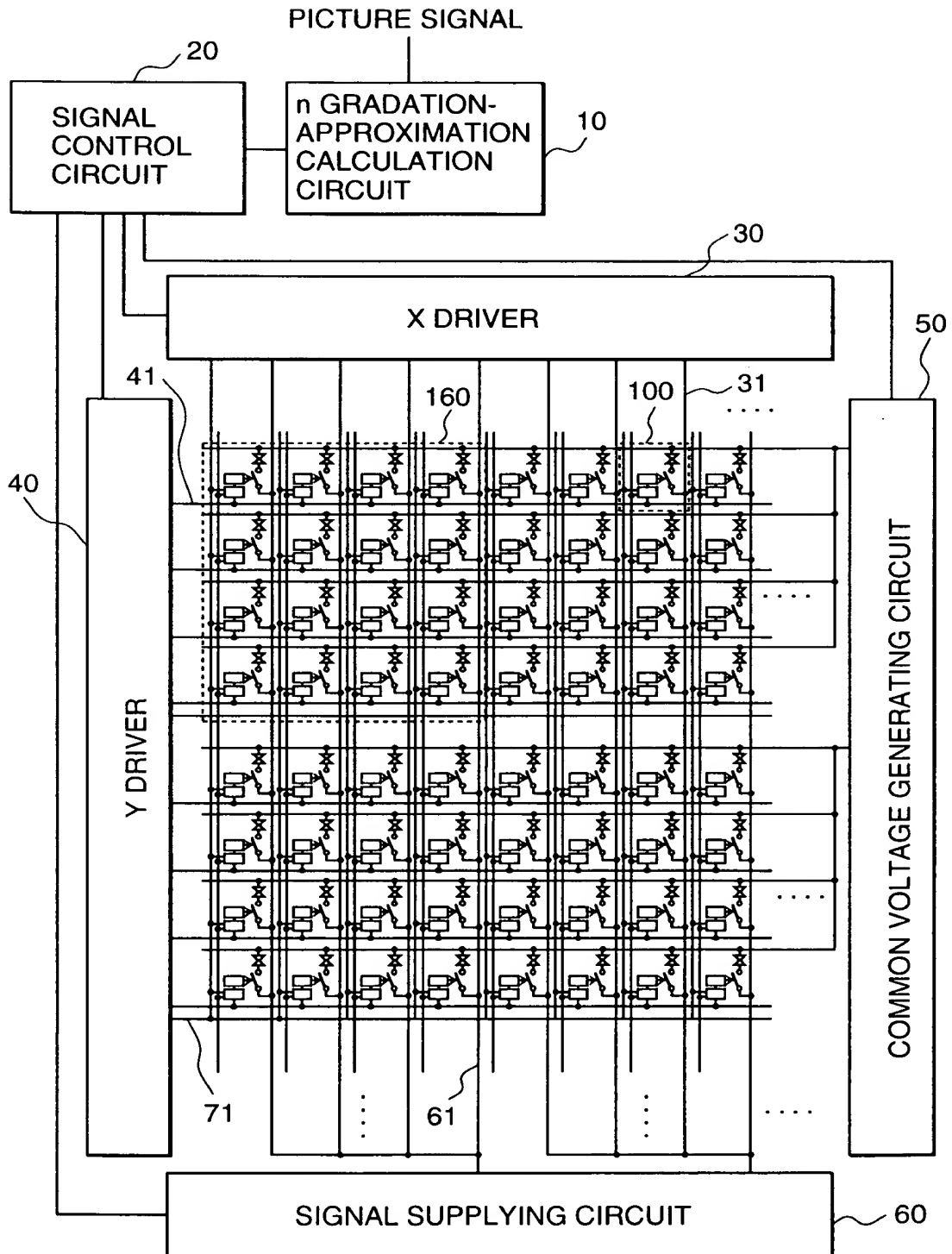


FIG. 3

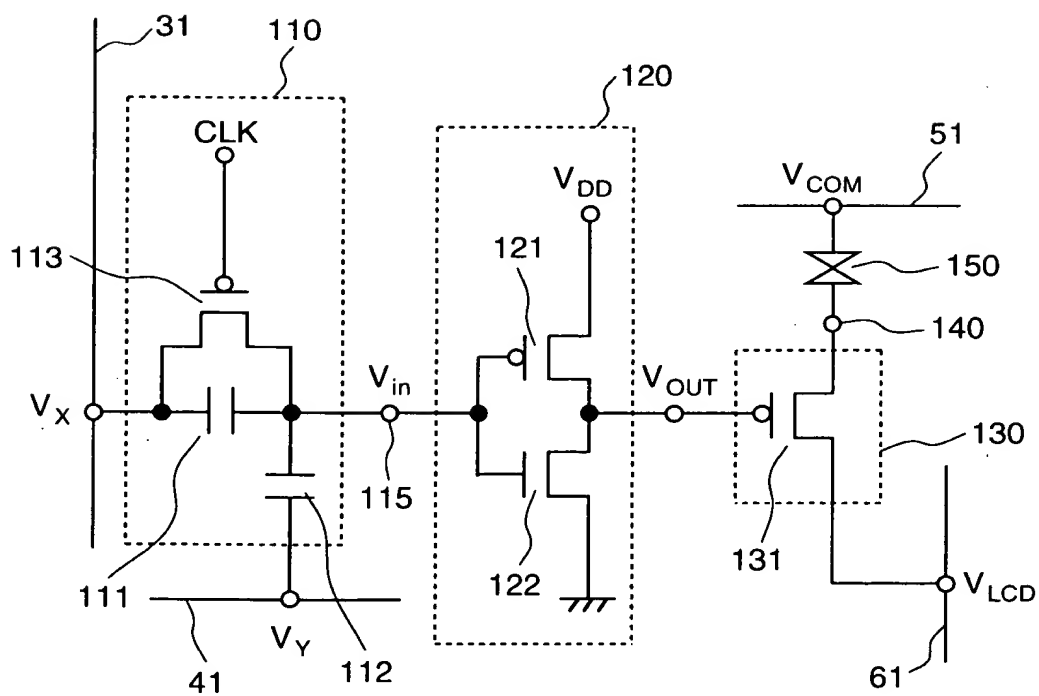


FIG. 4

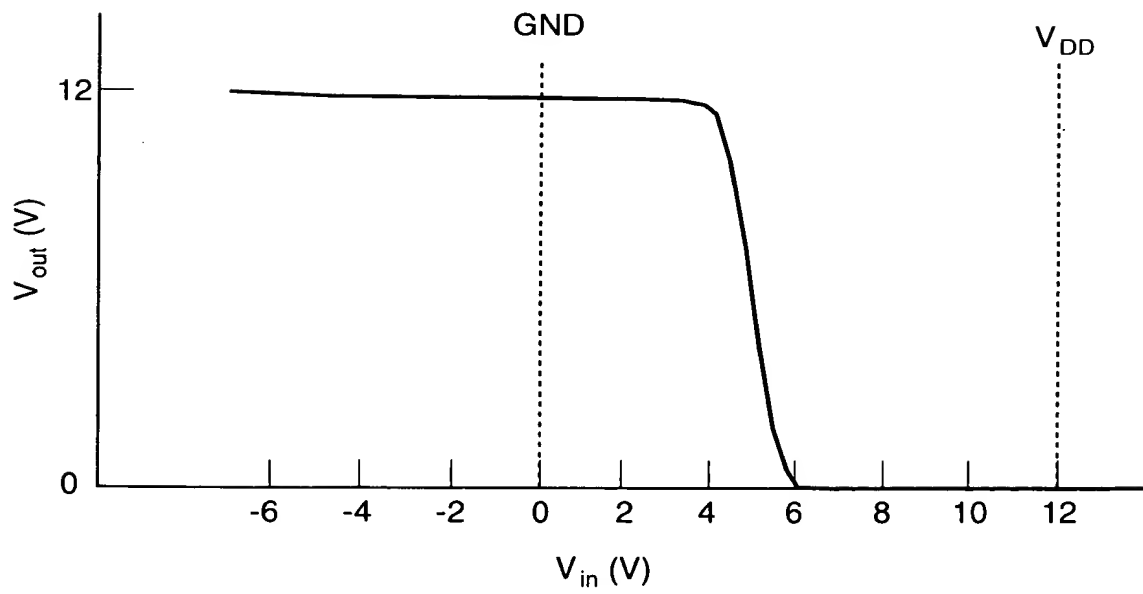
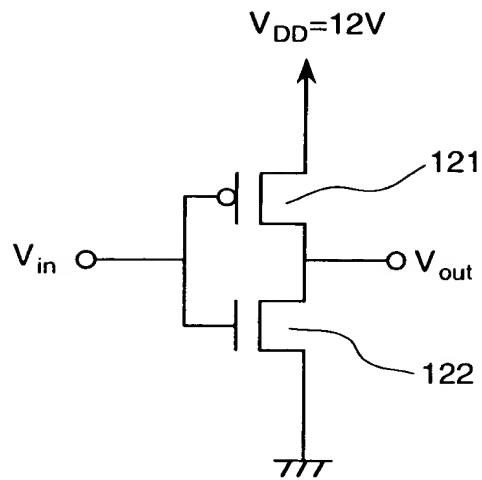


FIG. 5

SELECTION PERIOD t_1 :

LINES 1 TO 4

$$V_{in}(t_1) = (V_X(t_1) + V_X(t_1))/2 \\ = (V_X(t_1) + 20j/2) \geq 6$$

LINES 5 TO 8

$$V_{in}(t_1) = (V_X(t_1) + V_X(t_1))/2 \\ = (V_X(t_1) + 0j/2) \leq 4$$

SELECTION PERIOD t_2 :

LINES 1 TO 4

$$V_{in}(t_2) = (V_X(t_2) + V_X(t_2))/2$$

LINES 5 TO 8

$$V_{in}(t_2) = (V_X(t_2) + V_X(t_2))/2 \\ = (V_X(t_2) + 20j/2) \geq 6$$

SELECTION PERIOD t_3 :

LINES 1 TO 4

$$V_{in}(t_3) = (V_X(t_3) + V_X(t_3))/2 \\ = (V_X(t_3) + 0j/2) \leq 4$$

LINES 5 TO 8

$$V_{in}(t_3) = (V_X(t_3) + V_X(t_3))/2$$

		$V_X(t_1)$							
		4	8	8	4	0	-4	-8	-8
$Y_Y(t_1)$	20	12	14	14	12	10	6	6	6
	20	12	14	14	12	10	6	6	6
	20	12	14	14	12	10	6	6	6
	20	12	14	14	12	10	6	6	6
	0	2	4	4	2	0	-2	-4	-4
	0	2	4	4	2	0	-2	-4	-4
	0	2	4	4	2	0	-2	-4	-4
	0	2	4	4	2	0	-2	-4	-4

(a)

		$V_X(t_2)$							
		0	-4	-4	0	4	0	-4	-8
$Y_Y(t_2)$	4	2	0	0	2	4	2	0	-2
	8	4	2	2	4	10	4	2	0
	12	12	4	4	12	10	6	4	2
	16	12	14	14	12	10	6	6	4
	20	2	4	4	2	0	-2	-4	-4
	20	2	4	4	2	0	-2	-4	-4
	20	2	4	4	2	0	-2	-4	-4
	20	2	4	4	2	0	-2	-4	-4

(b)

		$V_X(t_3)$							
		-4	0	0	0	0	-4	-8	-8
$Y_Y(t_3)$	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
	4	0	2	2	2	2	0	-2	-2
	8	2	4	4	4	4	2	0	0
	12	4	6	6	6	6	4	2	2
	16	6	8	8	8	8	6	4	4

(c)

FIG. 6

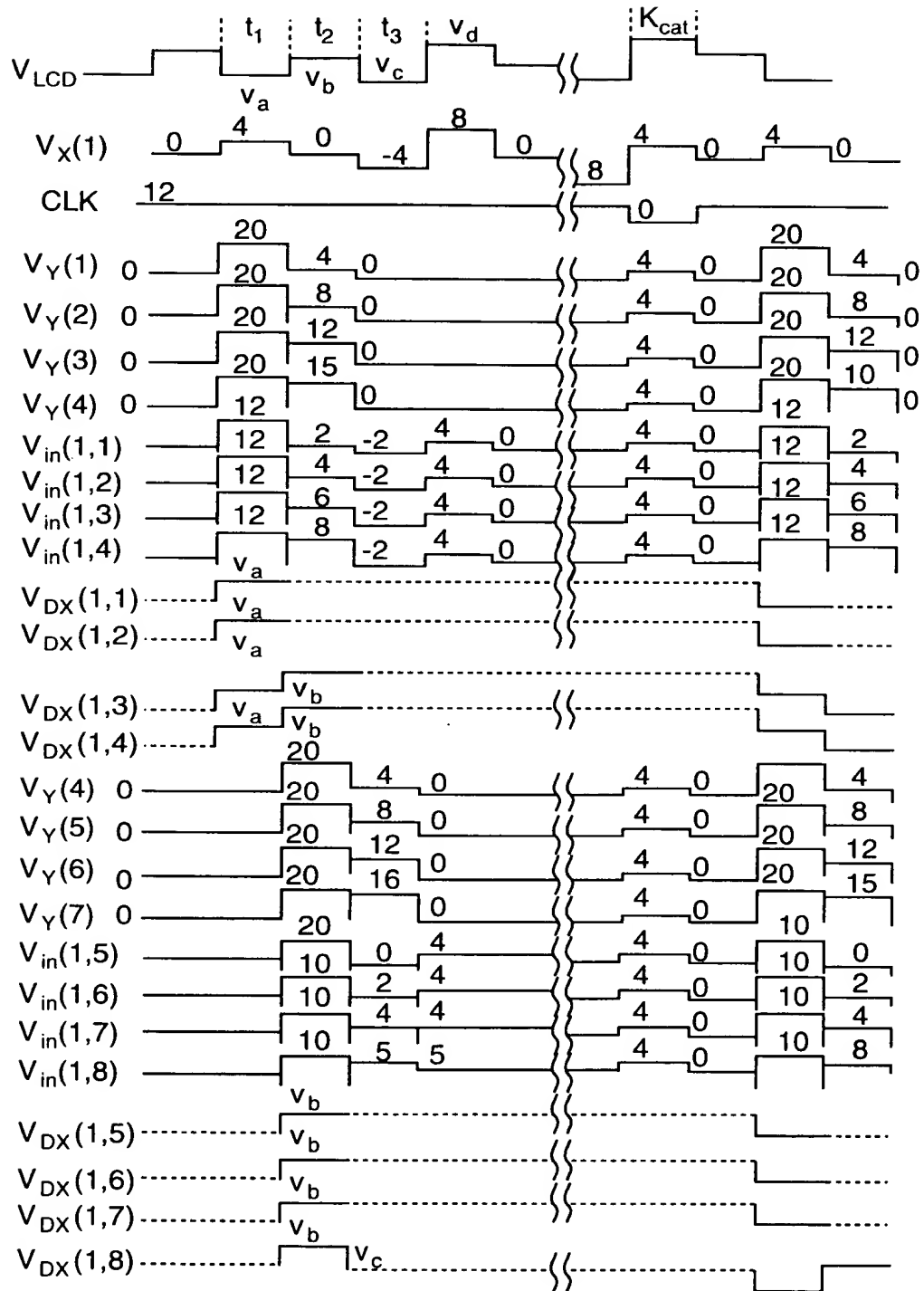


FIG. 7

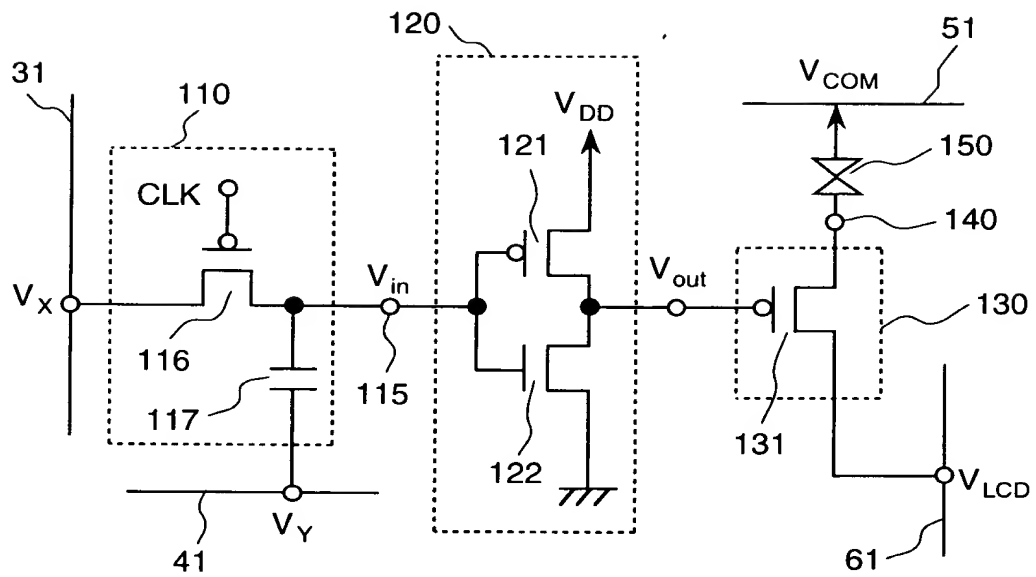


FIG. 8

SELECTION PERIOD t_1 :

LINES 1 TO 4

$$V_{in}(t_1) = V_X(t_1) \geq 6$$

LINES 5 TO 8

$$\text{HOLDING } V_{in}(t_1) \leq 4$$

		$V_X(t_1)$							
		10	8	8	10	12	10	8	6
$Y_Y(t_1)$	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
0	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*

(a)

SELECTION PERIOD t_2 :

LINES 1 TO 4

$$V_{in}(t_2) = V_X(t_1) + V_Y(t_2) - 10$$

$$V_{in}(t_2) = V_X(t_2) \geq 6$$

		$V_X(t_2)$							
		8	10	10	10	10	8	6	6
$Y_Y(t_2)$	2	2	0	0	2	4	2	0	-2
	4	4	2	2	4	6	4	2	0
	6	6	4	4	6	8	6	4	2
	8	8	6	6	8	10	8	6	4
10	10	8	10	10	10	10	8	6	6
	10	8	10	10	10	10	8	6	6
	10	8	10	10	10	10	8	6	6
	10	8	10	10	10	10	8	6	6

(b)

SELECTION PERIOD t_3 :

LINES 1 TO 4

$$\text{HOLDING } V_{in}(t_3) = V_X(t_1) - 10 \leq 4$$

LINES 5 TO 8

$$V_{in}(t_3) = V_X(t_2) + V_Y(t_3) - 10$$

		$V_X(t_3)$							
		-4	0	0	0	0	-4	-8	-8
$Y_Y(t_3)$	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
2	2	0	2	2	2	2	0	-2	-2
	4	2	4	4	4	4	2	0	0
	6	4	6	6	6	6	4	2	2
	8	6	8	8	8	8	6	4	4

(c)

FIG. 9

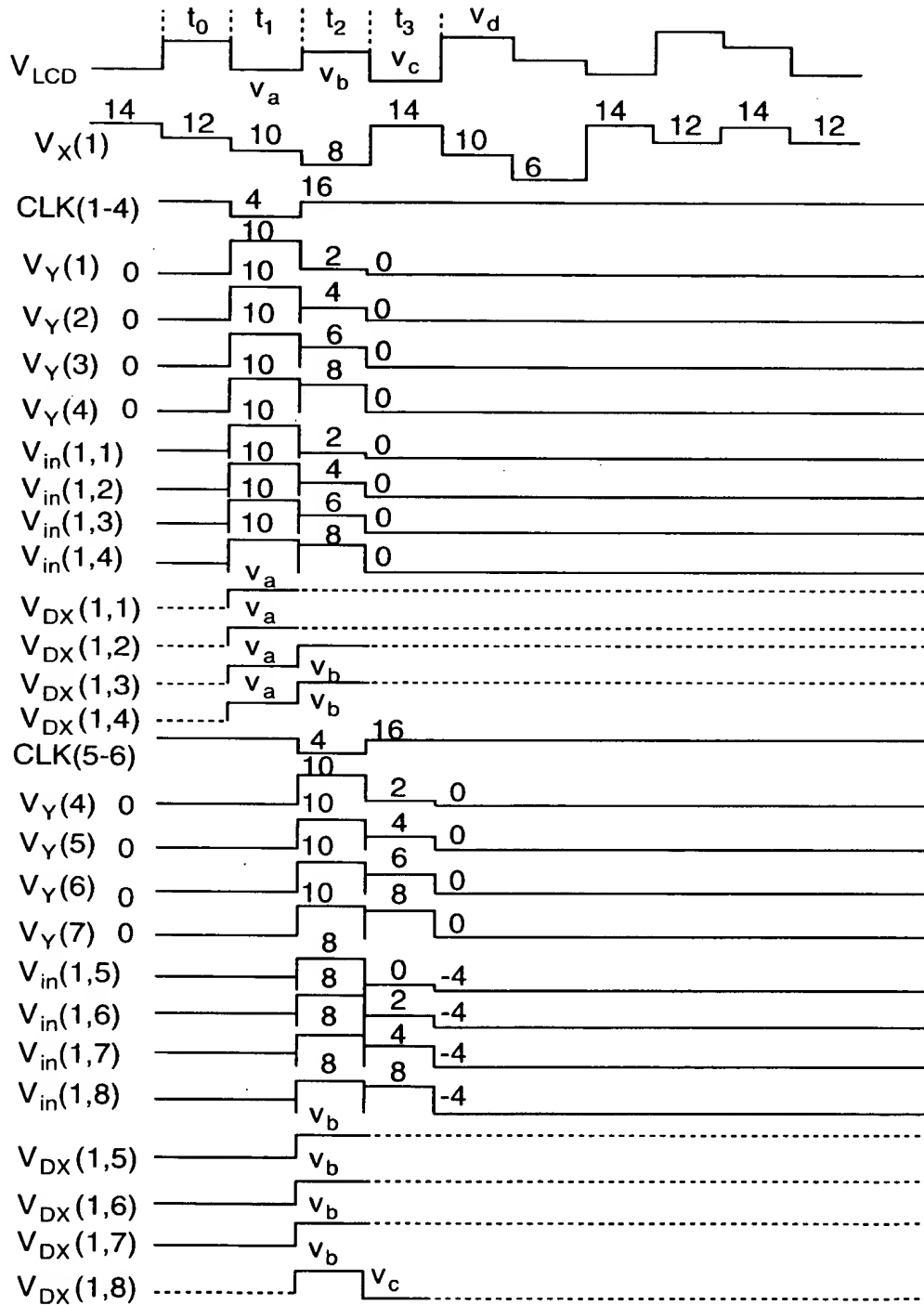


FIG. 10

SELECTION PERIOD t_1 :
 LINES 1 TO 4
 $V_{in}(t_1) = V_X(t_1) \geq 6$

LINES 5 TO 8
 HOLDING $V_{in}(t_1) \leq 4$

		$V_X(t_1)$							
		10	8	8	10	12	10	8	6
$Y_Y(t_1)$	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
0	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
		⋮							

SELECTION PERIOD t_2 :
 LINES 1 TO 4
 $V_{in}(t_2) = V_X(t_1) + V_Y(t_2) - 10$

HOLDING $V_{in}(t_1) \leq 4$

		$V_X(t_2)$							
		8	10	10	10	10	8	6	6
$Y_Y(t_2)$	2	2	0	0	2	4	2	0	-2
	4	4	2	2	4	6	4	2	0
	6	6	4	4	6	8	6	4	2
	8	8	6	6	6	10	8	6	4
10	10	*	*	*	*	*	*	*	*
	10	*	*	*	*	*	*	*	*
	10	*	*	*	*	*	*	*	*
	10	*	*	*	*	*	*	*	*
		⋮							

SELECTION PERIOD t_3 :
 LINES 1 TO 4
 HOLDING $V_{in}(t_3) = V_X(t_1) - 10 \leq 4$

LINES 5 TO 8
 $V_{in}(t_3) = V_X(t_3) \geq 6$

		$V_X(t_3)$							
		-4	0	0	0	0	-4	-8	-8
$Y_Y(t_3)$	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
	0	-2	0	0	0	0	-2	-4	-4
2	2	8	10	10	10	10	8	6	6
	4	8	10	10	10	10	8	6	6
	6	8	10	10	10	10	8	6	6
	8	8	10	10	10	10	8	6	6
		⋮							

FIG. 11

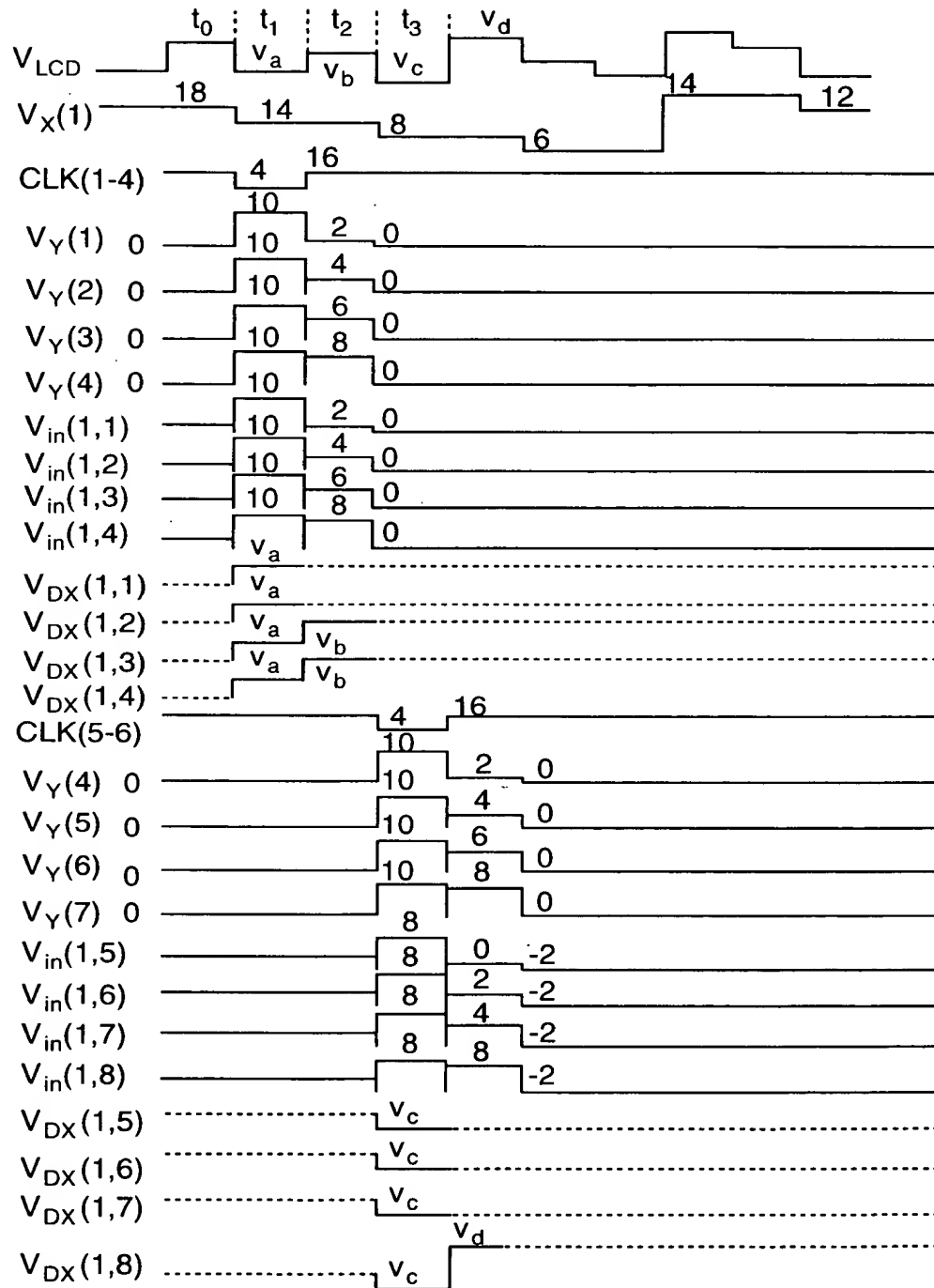


FIG. 12

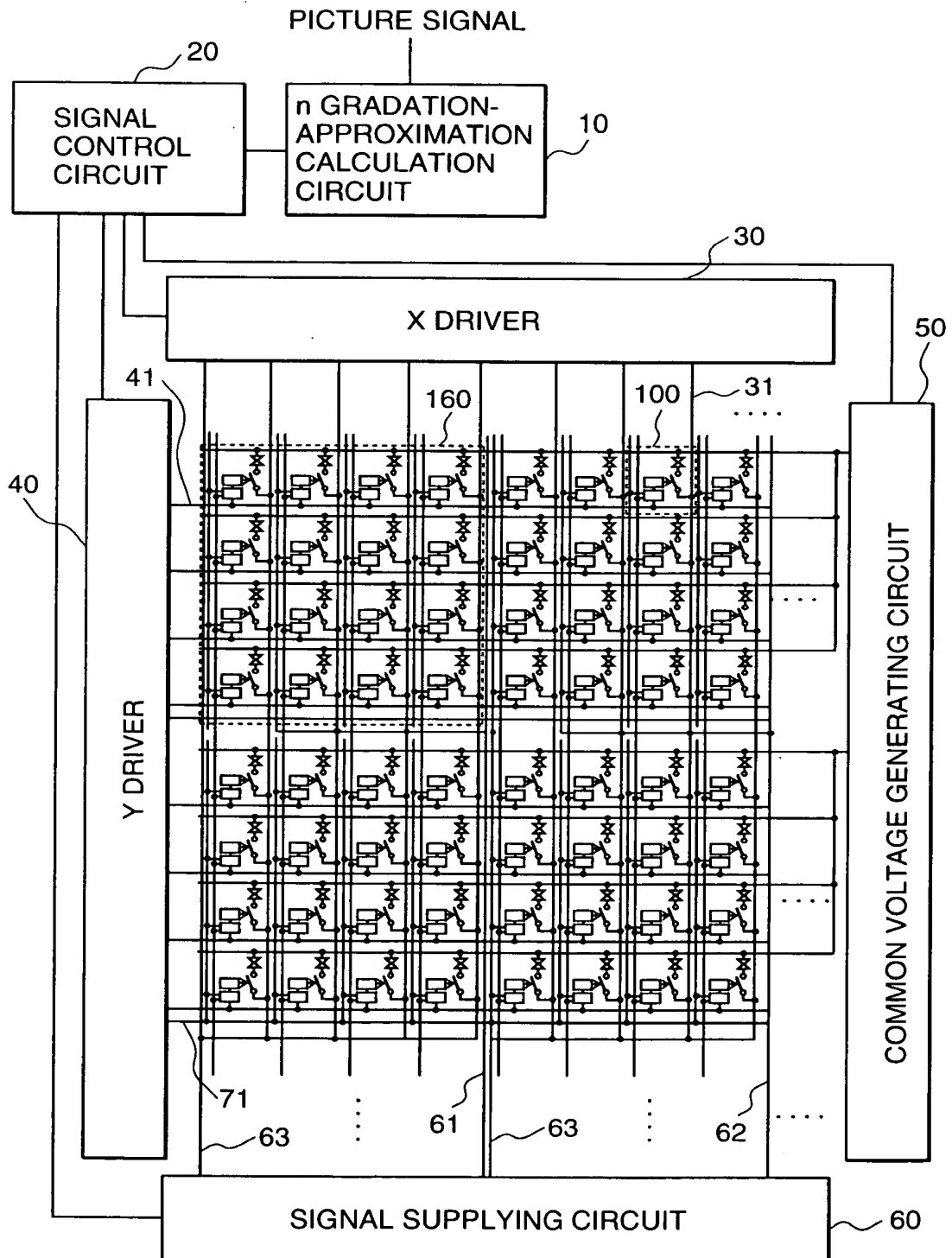


FIG. 12

FIG. 13

SELECTION PERIOD t_1 :
 LINES 1 TO 4
 $V_{in}(t_1) = V_X(t_1) \geq 6$

LINES 5 TO 8
 HOLDING $V_{in}(t_1) \leq 4$

		$V_X(t_1)$							
		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
$Y_Y(t_1)$	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*

(a)

SELECTION PERIOD t_2 :
 LINES 1 TO 4
 $V_{in}(t_2) = V_X(t_1) + V_Y(t_2) - 10$

$V_{in}(t_2) = V_X(t_2) \geq 6$

		$V_X(t_2)$							
		8	10	10	10	10	8	6	6
2		2	0	0	2	4	2	0	-2
4		4	2	2	4	6	4	2	0
6		6	4	4	6	8	6	4	2
8		8	6	6	8	10	8	6	4
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6

(b)

SELECTION PERIOD t_3 :
 LINES 1 TO 4
 HOLDING $V_{in}(t_3) = V_X(t_1) - 10 \leq 4$

LINES 5 TO 8
 $V_{in}(t_3) = V_X(t_2) + V_Y(t_3) - 10$

		$V_X(t_3)$							
		14	10	8	6	6	10	10	12
0		0	-2	-2	0	2	0	-2	-4
0		0	-2	-2	0	2	0	-2	-4
0		0	-2	-2	0	2	0	-2	-4
0		0	-2	-2	0	2	0	-2	-4
2		0	2	2	2	2	0	-2	-2
4		0	4	4	4	4	2	0	0
6		4	6	6	6	6	4	2	2
8		6	8	8	8	8	6	4	4

(c)

FIG. 14

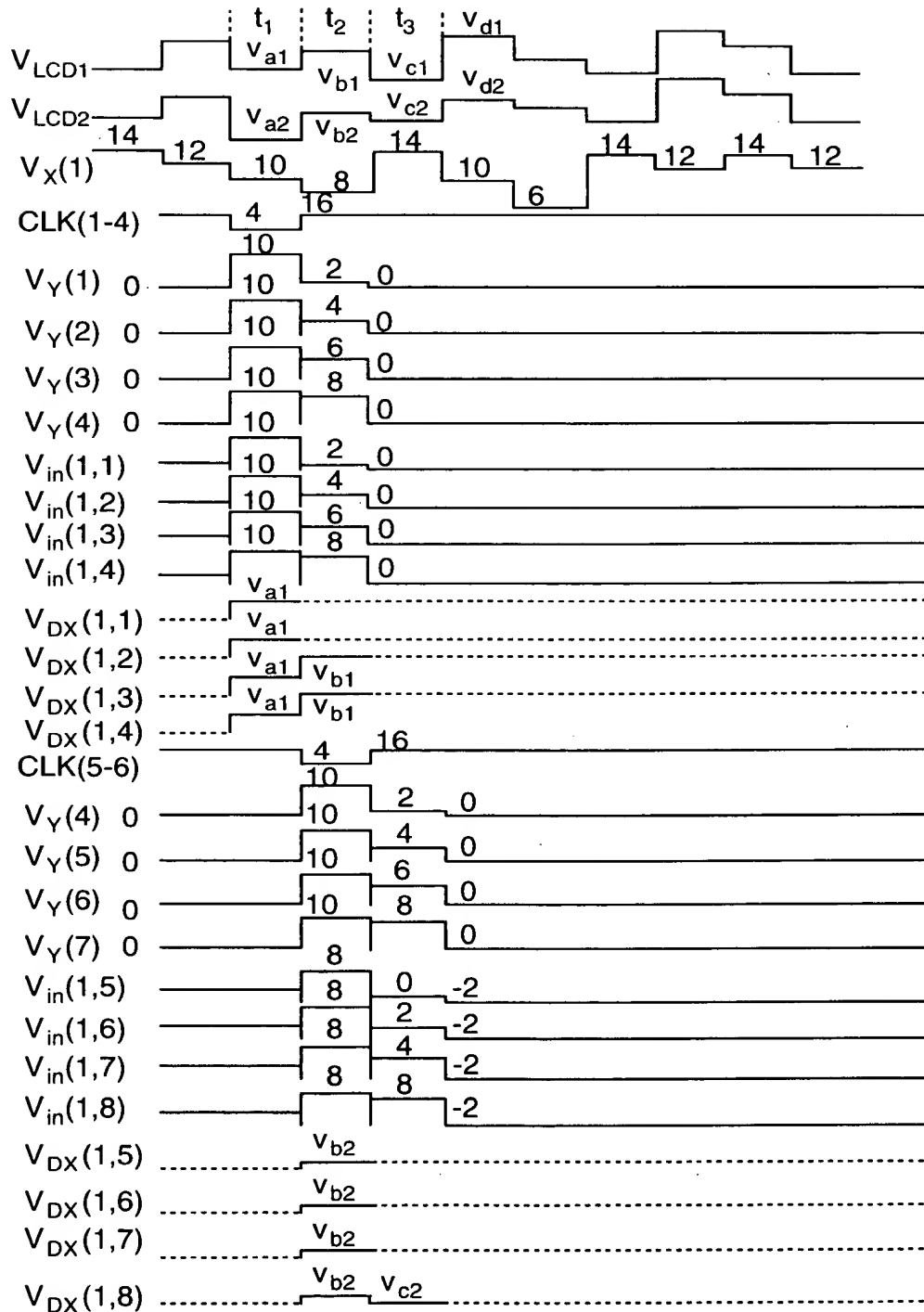


FIG. 15

SELECTION PERIOD t_1 :
 LINES 1 TO 4
 $V_{in}(t_1) = V_X(t_1)$

LINES 5 TO 8
 HOLDING $V_{in}(t_1) \leq 4$

		$V_X(t_1)$							
		2	6	6	8	10	8	6	4
6		2	6	6	8	10	8	6	4
6		2	6	6	8	10	8	6	4
6		2	6	6	8	10	8	6	4
6		2	6	6	8	10	8	6	4
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*

⋮

(a)

SELECTION PERIOD t_2 :
 LINES 1 TO 4
 $V_{in}(t_2) = V_X(t_1) + 4 \geq 6$

$V_{in}(t_2) = V_X(t_2)$

		$V_X(t_2)$							
		4	6	6	6	6	4	2	2
10		6	10	10	12	14	12	10	8
10		6	10	10	12	14	12	10	8
10		6	10	10	12	14	12	10	8
10		6	10	10	12	14	12	10	8
6		4	6	6	6	6	4	2	2
6		4	6	6	6	6	4	2	2
6		4	6	6	6	6	4	2	2
6		4	6	6	6	6	4	2	2

⋮

(b)

SELECTION PERIOD t_3 :
 LINES 1 TO 4
 $V_{in}(t_3) = V_X(t_1) + V_Y(t_3) - 6$

LINES 5 TO 8
 $V_{in}(t_3) = V_X(t_2) + 4 \geq 6$

		$V_X(t_3)$							
		10	8	6	2	2	4	6	8
2		-2	2	2	4	6	4	2	0
4		0	4	4	6	8	6	4	2
6		2	6	6	8	10	8	6	4
8		4	8	8	10	12	8	8	6
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6

⋮

(c)

FIG. 16

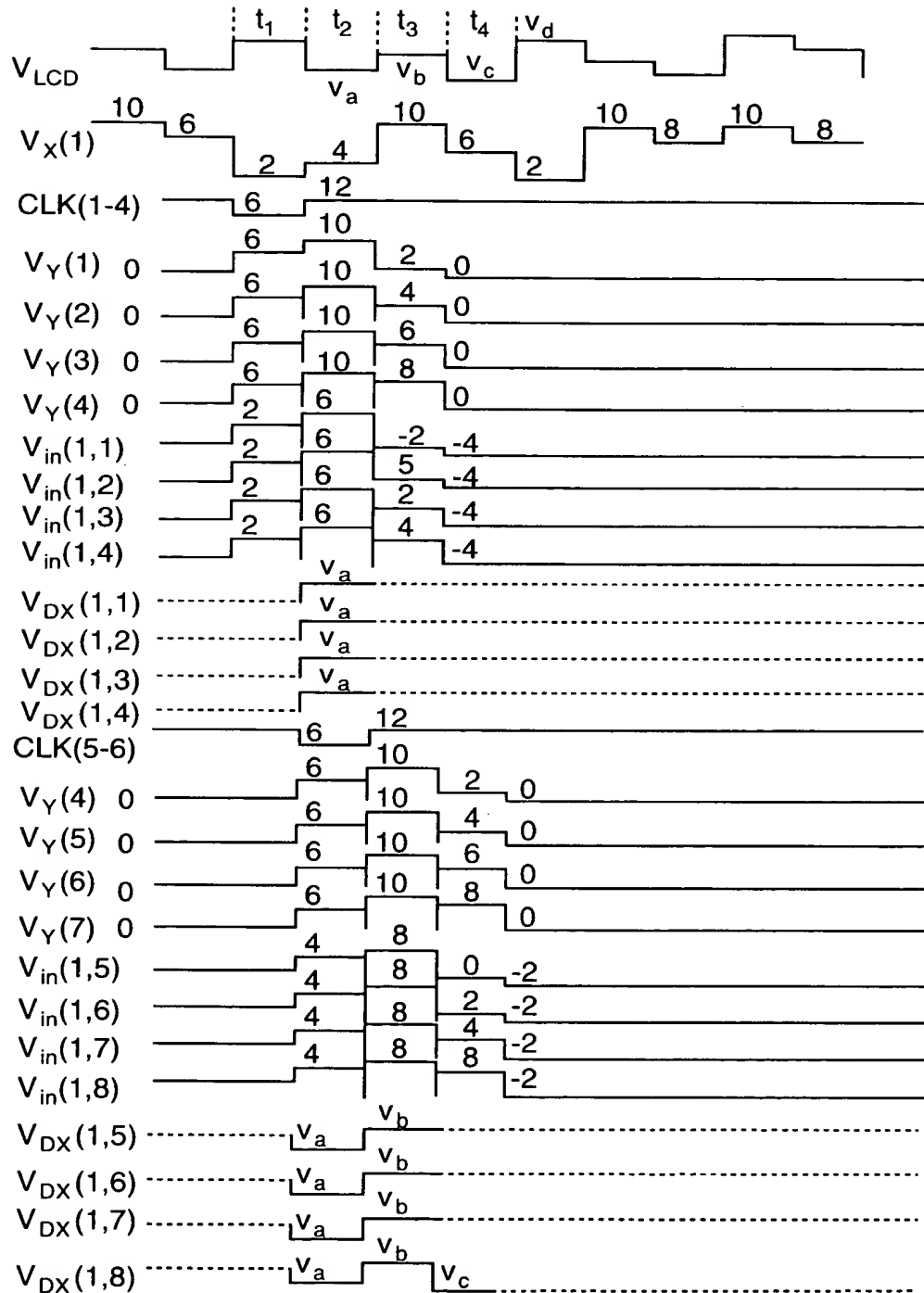


FIG. 17

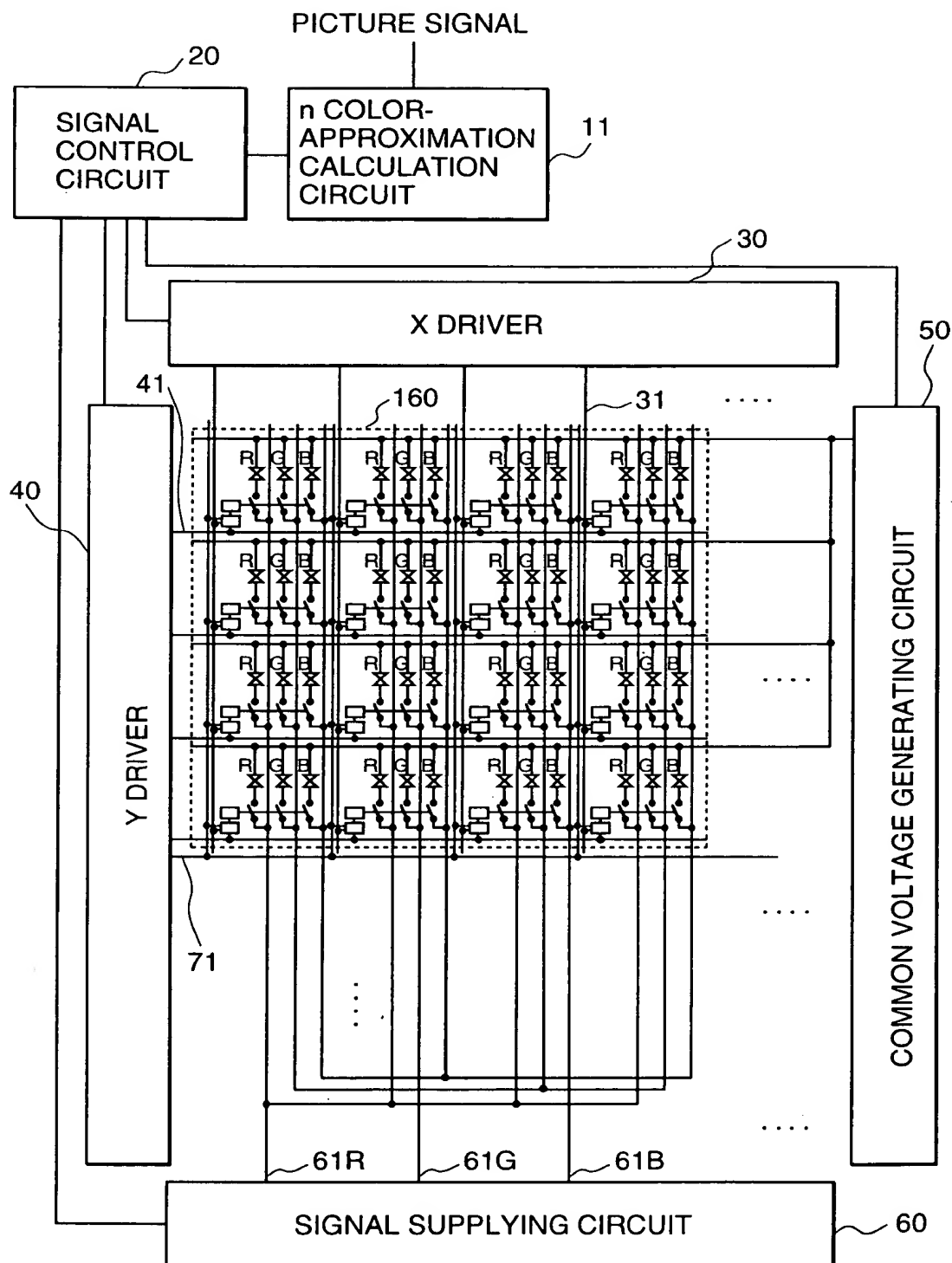


FIG. 18

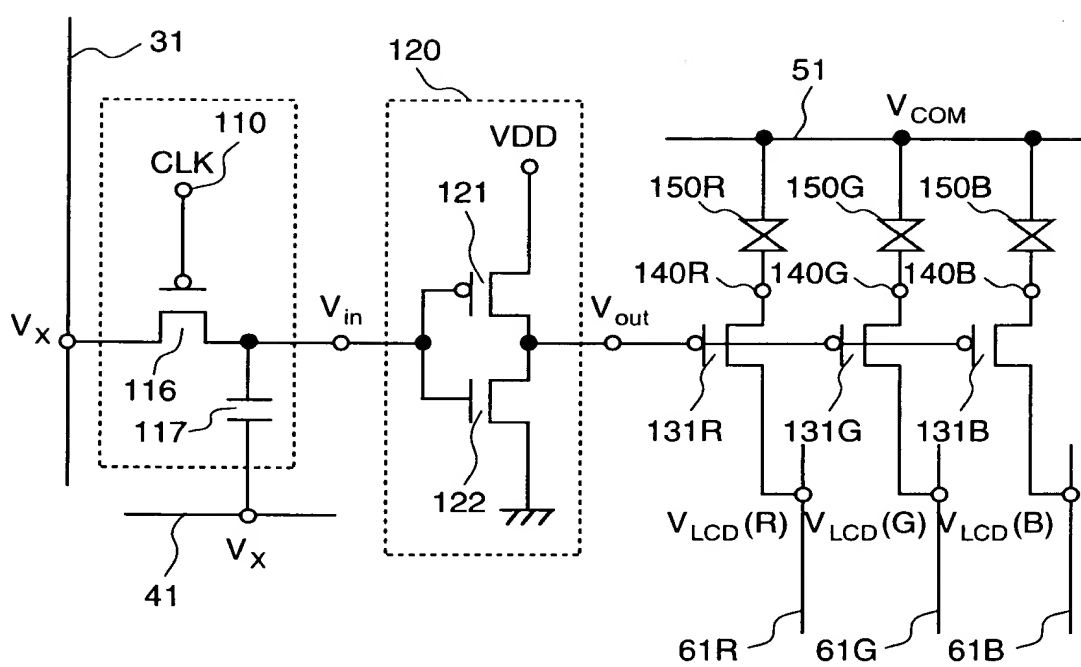


FIG. 19

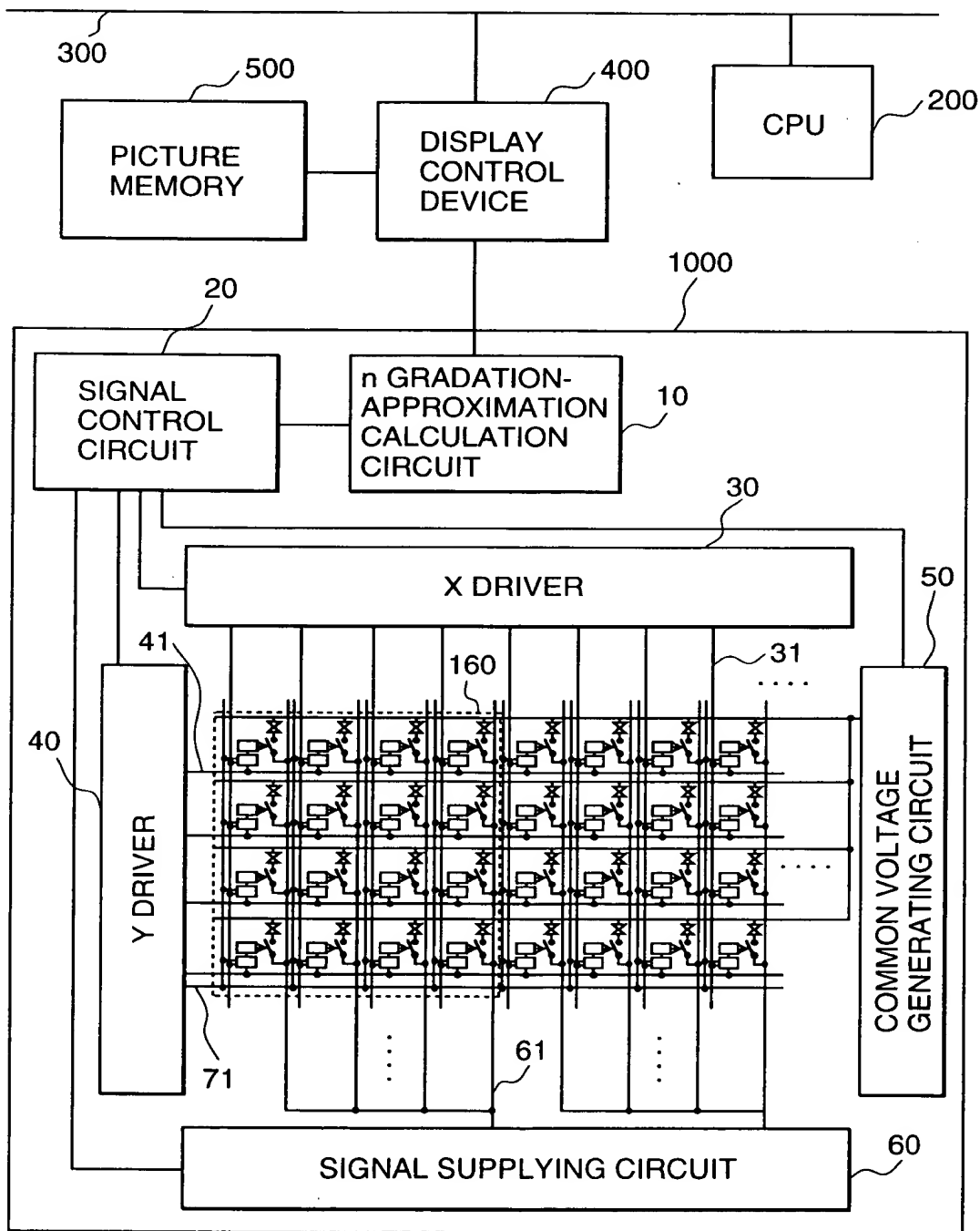


FIG. 20

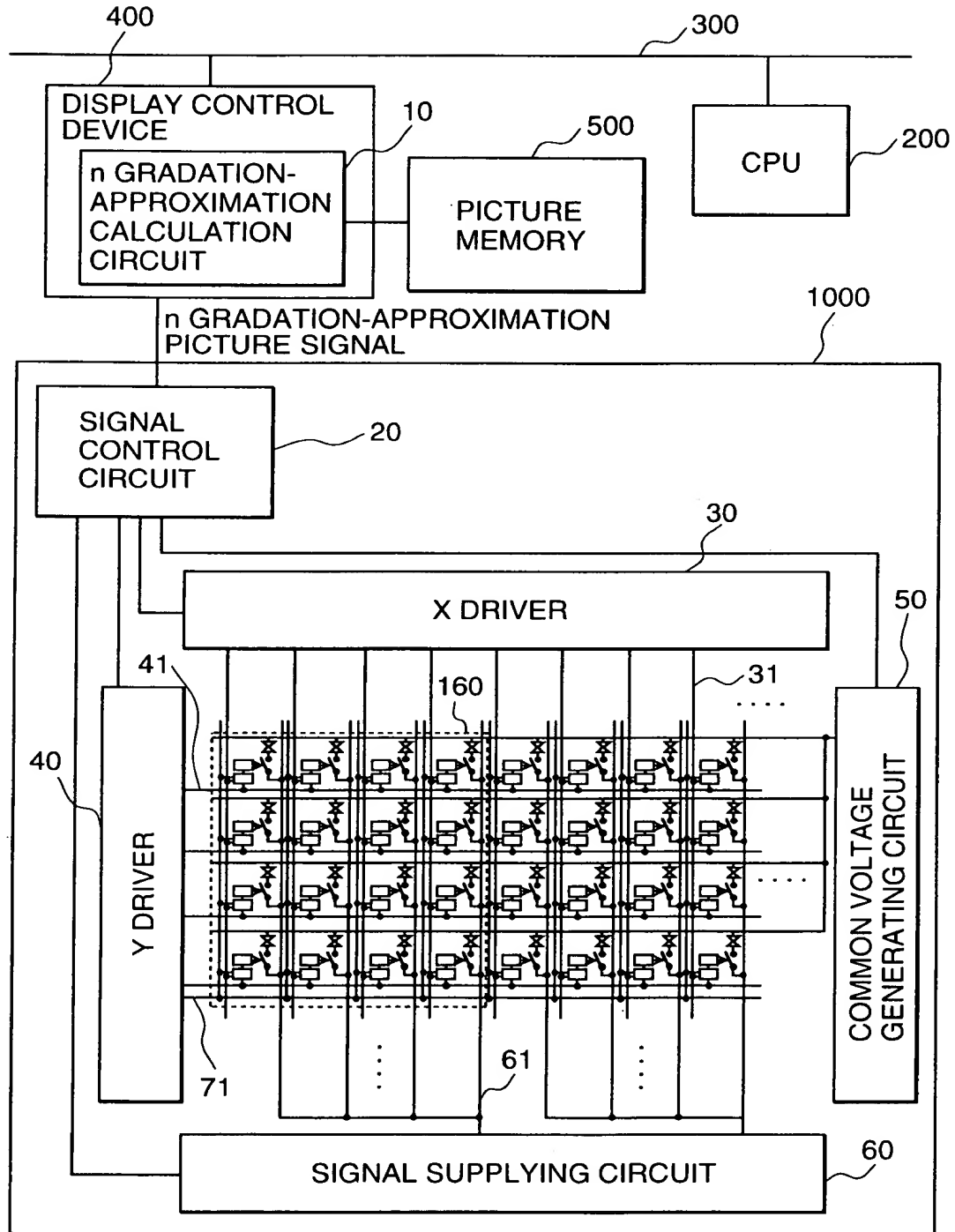
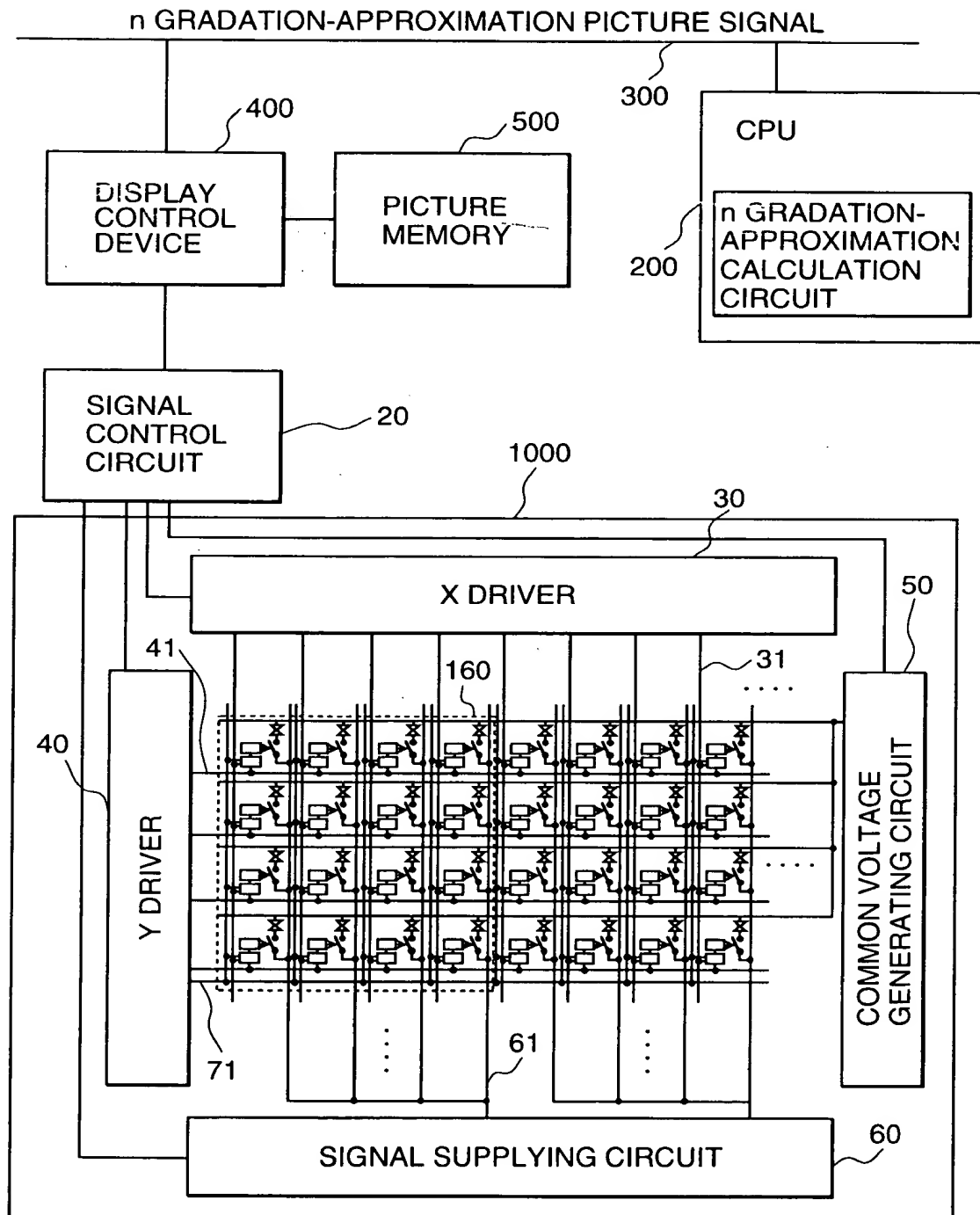


FIG. 21



[illegible]